

Claims

1. Disposable diaper (2), in particular for incontinent care, with a diaper hip opening which is closed in the peripheral direction to form a hip belt (10) that can be opened and closed onto itself at at least one location, and with a main diaper section (4) having a front region, a rear region, and a crotch region disposed between the front region and the rear region, the main diaper section (4) also having an absorption body (6) for liquids, wherein the main diaper section (4) can be secured to the hip belt (10) in a detachable fashion by closing means (34) at the longitudinal end of its front region or of its rear region in such a fashion that the user, with the hip belt applied (10), can lift the main diaper section (4) upwardly between the legs and can attach the free longitudinal end of the main diaper section (4) to the hip belt (10) in a detachable fashion, characterized in that the hip belt (10) is formed from a single piece material section (8) which is joined onto the main diaper section (4) and which is folded onto itself along folding lines (20) extending in a longitudinal direction (18) on both sides of a middle axis.
2. Disposable diaper of claim 1, characterized in that the hip belt (10) is fixed in the folded configuration in a detachable fashion.
3. Disposable diaper of claim 2, characterized in that the detachable fixing between the partial sections (30) of the material section (8) forming the hip belt (10) which are folded on top of each other is effected by means of attachment locations (32) or attachment regions.

4. Disposable diaper of claim 2 or 3, characterized in that the attachment locations (32) or attachment regions are substantially point shaped.
5. Disposable diaper according to any one or more of the preceding claims, characterized in that the one piece material section (8) is folded on itself on each side of a longitudinal middle axis of the diaper about at least two respective fold lines (20).
6. Disposable diaper according to any one or more of the preceding claims, characterized in that the one piece material section (8) is folded upon itself on each side of a longitudinal middle axis of the diaper about three or respective four fold lines (20).
7. Disposable diaper according to any one or more of the preceding claims, characterized in that, in the folded configuration, the one piece material section (8) has a grasping region (24) located on its free end (22) that protrudes in a transverse direction (14) past a longitudinal side edge (16) of the main diaper section (4) by at least 10 mm, in particular by at least 20 mm, and most particularly by at least 30 mm.
8. Disposable diaper according to any one or more of the preceding claims, characterized in that, in the folded configuration, a grasping region (24) at each of the two free ends (22) of the single piece material section (8) protrudes in a transverse direction (14) past a longitudinal side edge (16) of the main diaper section (4).

9. Disposable diaper according to any one or more of the preceding claims, characterized in that the material section (8) forming the hip belt (10) extends in the unfolded state in a transverse direction (14) past the longitudinal edge (16) of the main section (4) by at least 200 mm, in particular by at least 300 mm, in particular by at least 400 mm, in particular by at least 500 mm, and most particularly by 600 mm.
10. Disposable diaper according to any one or more of the preceding claims, characterized in that the hip belt (10) has an extension in a longitudinal direction (18) of 30 to 120 mm, in particular between 30 and 100 mm; in particular between 30 and 80 mm, in particular between 30 and 75 mm, in particular between 44 and 70 mm, in particular between 40 and 65 mm, and in particular between 40 and 60 mm.
11. Disposable diaper according to any one or more of the preceding claims, characterized in that the one-piece material section (18) is attached in a permanent manner to an outer side (12) of the main section (4).
12. Disposable diaper according to any one or more of the preceding claims, characterized in that the one-piece material section (8) is attached to the main diaper section (4) with the application of glue (44), preferably in certain regions only.

13. Method for the manufacture of a disposable diaper according to any one or more of the preceding claims, characterized by the following method steps:

introducing an endless flat material web (42) to form material sections (8) for manufacturing the hip belt (10);
folding the flat material web (42) about folding lines (20) extending in the longitudinal direction (4), wherein the flat material web (42) is folded onto itself at each side of its longitudinal central axis;
separating longitudinal sections of the folded flat material into respective single-piece material sections (8) for the hip belt (10); and
permanently fixing the material section (8) onto a main diaper section (4).

14. The method of claim 13, characterized in that the flat material web (42) is folded onto itself at two respective fold lines (20) on each side of the longitudinal axis.

15. Method according to claim 13 or 14 characterized in that the partial sections (30) of the flat material web (42) are attached to each other in a detachable fashion.

16. Method according to any one of the claims 13 through 15, characterized in that in that the material section (8) is permanently bonded or attached to the main diaper section (4) using glue (44).

17. Method according to any one of the claims 13 through 16, characterized in that the glue (44) is introduced onto the flat material web (42) in regions (46) having mutual longitudinal (40) separations.
18. Method according to any one of the claims 13 through 17, characterized in that in the glue (44) is introduced in sections onto the flat material web (42) in such a fashion that it is separated from the edge of the subsequently separated material section (8) in the longitudinal direction (40) and preferably also in the transverse direction (14).
19. Method according to any one of the claims 13 through 18, characterized in that the glue (14) is introduced onto the flat material web in cycles.